Name: KEY Period: _____

# Chapter 4 Quiz Review

Lessons 4-1 through 4-3

**Congruency**

1. Two triangles have the following pairs of congruent sides: $\overline{BD} \cong \overline{FJ}$, $\overline{DG} \cong \overline{JM}$, and $\overline{GB} \cong \overline{MF}$. Write the congruence statement for the two triangles.

$\triangle BDG \cong \triangle FJM$

**$\triangle QRS \cong \triangle TUV$. Name the angle or side that corresponds to the given part.**

2. $\angle Q \cong \angle T$ 3. $\overline{RS} \cong \overline{UV}$ 4. $\angle S \cong \angle T$ 5. $\overline{QS} \cong \overline{TV}$

**State the postulate or theorem that can be used to prove the triangles congruent. If you cannot prove the triangles congruent, write *not enough information.***

SSS
SAS
ASA
AAS

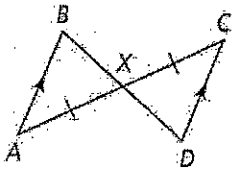
6. SSS

7. SAS

8. Not enough info

9. ASA

**Use the diagram at the right. Tell why each statement is true.**




10. $\angle A \cong \angle C$ alternate interior angles
11. $\angle AXB \cong \angle CXD$ vertical angles
12. $\triangle ABX \cong \triangle CDX$ ASA

**Complete the following statements.**

13. **Given:** $\triangle FGH \cong \triangle WAX$

a. $\overline{GH} \cong$ ? $\overline{AX}$

b. $\angle W \cong$ ? $\angle F$

14. **Given:** $BIKE \cong PATH$

a. $\angle T \cong$ ? $\angle K$

b. $THPA \cong$ ? KEIB

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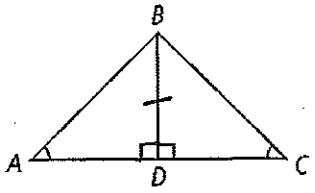
**Use the diagram at the right. Tell why each statement is true.**




**15.** $m\angle ADB = 90$ Given (from drawing)

**16.** $\overline{BD} \cong \overline{BD}$ Reflexive

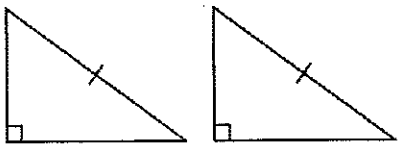
**17.** $\triangle ADB \cong \triangle CDB$ AAS (angle, angle, side)

**18.** In ΔABC, which side is included between $\angle B$ and $\angle C$? $\overline{BC}$

1 2 3 2 3 2 3

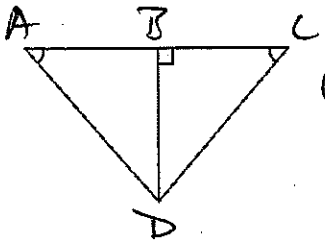
**State the postulate or theorem you can use to prove each pair of triangles congruent. If the triangles cannot be proven congruent, write *not enough information.***

**19.**



Not enough info

**20.**




① add letters to help

② $\angle A \cong \angle C$ Given from drawing.

③ $\angle ABD \cong \angle CBD$ right angles are congruent

④ $\overline{BD} \cong \overline{BD}$ Reflexive

⑤ $\triangle ABD \cong \triangle CB$ AAS

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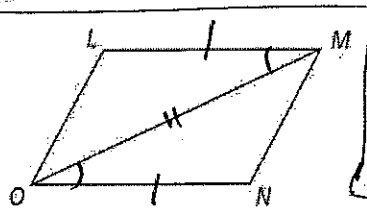
**Proof:**

**21. Given:** $\overline{LM} \cong \overline{NO}$; $\angle LMO \cong \angle NOM$

**Prove:** $\triangle LMO \cong \triangle NOM$




| Statement | Reason | |
|---|---|---|
| $\overline{LM} \cong \overline{NO}$ | Given | side |
| $\angle LMO \cong \angle NOM$ | Given | angle |
| $\overline{OM} \cong \overline{OM}$ | Reflexive | |
| $\triangle LMO \cong \triangle NOM$ | SAS | |